



Bangladesh University of Business and Technology (BUBT)

Project Proposal

On

Project Name: Imhotep

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Submitted By:

ID	Name	Intake/Section
20245103247	Syed sami Sayem	53/7
20245103254	Sourav Chandra Shil	53/7
20245103261	Tasmia Anwar Nisa	53/7
20245103248	Raisa sadik Smrity	53/7
20245103244	Md Tanvir Islam	53/7

Submitted to:

Sondip Poul Singha

Assistant Professor, Dept. of CSE

1. **Problem:** We don't know about the proper using of GUI and also the language python is new for us.
2. **Objectives:** The Imhotep project is a medical service application designed to connect doctors, patients, and pharmacists on a single digital platform. It enables new registrations, secure logins, unique IDs (UIDs), and password recovery for all users.
 - Doctors can access patient histories, update current conditions, and issue prescriptions linked to a UID or QR code.
 - Patients can view their ongoing and past prescriptions, track upcoming counseling dates, and receive suggestions directly from their doctors.
 - Pharmacists can verify prescriptions using a patient's UID and manage pending or dispensed medications.

This system ensures streamlined healthcare management, improved communication, and secure digital record-keeping between doctors, patients, and pharmacies.

3. **Features: Common Features (for all users) :**

- Secure registration & login system (with UID & password).
- Forgot password / account recovery option.
- Unique ID (UID) or QR code for identification.

Doctor Features:

- Access to patient's medical history (past diseases, treatments).
- New / Returning patient detection.
- Ability to update current health condition of the patient.
- Digital prescription generation linked with UID or QR code.
- Suggestions & medical notes for patients.

Patient Features:

- View ongoing prescriptions (doctor name, UID, instructions).
- Check past prescriptions & medical records.
- Next counseling/appointment date tracking.

Pharmacy Features:

- Verify prescription using patient UID or QR code.
- Check pending prescriptions from doctors.
- Mark prescriptions as dispensed once medicine is provided.
- Maintain dispensing history for record keeping

4. **Requirements:** Python, Python GUI, Database,SQL

5. **Limitations & Future Works:**

Limitations:

- we can not use Internet in this application so in can not use properly.
- It is a desktop base application so we can not use it on mobile phone.

Future Works:

- We will add internet in this application.
- We will add Ai in this application.
- We will launch a mobile app of this application.